

Compliance Component

DEFINITION							
Name	Cryptography for Stored Data						
Description	Cryptography for Stored Data is encryption at the storage level, protecting data at rest using a symmetric key block cipher algorithm.						
Rationale	Cryptography for Stored Data provides confidentiality and integrity of the data. It enables secure labeling, storing, and transferring of data.						
Benefits	 Protects against accidental compromise or alteration of data. Local encryption will facilitate the prevention of accidental unauthorized access, and will decrypt data only under prescribed control. 						
	 Protects against intentional compromise or alteration of data. If the storage device is physically compromised, the perpetrator will only find ciphered text rather than clear data. 						
ASSOCIATED ARCHITECTURE LEVELS							
List the Domain Name		Security					
List the Discipline Name		Technical Controls					
List the Technology Area Name		Cryptography					
List Product Component Name							
COMPLIANCE COMPONENT TYPE							
Document the Compliance Component Type		Guideline					
Component Sub-type							
COMPLIANCE DETAIL							
		The two approved cipher block algorithms for data storage are:					
		 Advanced Encryption Standard (AES), and Triple Data Encryption Standard (TDES or 3DES). 					
State the Guideline, S or Legislation	tandard	 A symmetric key to the block cipher must be established beforehand among the parties to the data and requires well-designed key management structure. 					
		 Sensitive or critical data should be encrypted when on a physically unsecured device, such as a laptop, removable hard drive, CD. etc., outside of a controlled facility. 					
Document Source Rei	ference #						
Standard Organization							
				http://csrc.nist.gov/publication			
Name		NIST SP 800-49	Website	<u>s/nistpubs/800-49/sp800-</u> 49.pdf			

Government Body								
Name	NIST	Website	http://csrc.nist.gov					
Contact Information								
KEYWORDS								
List all Keywords								
COMPONENT CLASSIFICATION								
Provide the Classification	☐ Emerging ☐ C	Current	Twilight					
Rationale for Component Classification								
Document the Rationale for Component Classification								
Conditional Use Restrictions								
Document the Conditional Use Restrictions								
Migration Strategy								
Document the Migration Strategy								
Impact Position Statement								
Document the Position Statement on Impact								
CURRENT STATUS								
Provide the Current Status)	☐ In Development ☐ L	Inder Review 🛛	Approved Rejected					
AUDIT TRAIL								
Creation Date	04/13/2004	Date Accepted / Rej	ected 4/13/04					
Reason for Rejection								
Last Date Reviewed	Reviewed		Last Date Updated					
Reason for Update								